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ANNUAL REPORT

of the

MEDICAL OFFICER OF HEALTH

for the year

1945.

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TO THE MAYOR, ALDERMEN AND COUNCILLORS OF  
THE BOROUGH OF LOUTH.

Gentlemen,

I beg to present my Annual Report for the year 1945.

The Vital Statistics are highly satisfactory, both in comparison with local figures for other years and with the corresponding rates for the Country as a whole, for the same year. The Birth Rate is the highest recorded in the Borough for at least twelve years and the Death Rate is the lowest for the same period. Other individual mortality rates are equally satisfactory.

The Notifications of Infectious Diseases were higher than the preceding three years due to a brisk outbreak of Measles during the late spring which accounted for 76% of the total notifications. There was a large drop in Scarlet Fever cases, but an increase in cases of Puerperal Pyrexia. No case of Diphtheria has been notified in the Borough for the past three years.

The excellent figures shown for Diphtheria Immunisation are based on reliable surveys of the two age groups, and as such, are more authentic than those arrived at statistically. The enthusiasm of the Health Visitors is mainly responsible for results in the pre-school age group, the great majority of whom had treatment at the optimum age - the child's first birthday.

Increased efforts were made towards effecting an improvement in the production of clean milk. The result of the analyses of the samples of ungraded milk show how desirable this effort is. It is unfortunate that the absence of a legal standard for this type of milk and the general scarcity of the product combine somewhat to negative the endeavour. It is hoped that the day is not far distant when all the ungraded milk, at least, will be Pasteurised and rendered safe for use.

I should like to take advantage of this occasion to express my thanks to the Chairman and Members of the Public Health Committee for their help and co-operation during the year.

Yours faithfully,

*W. J. Kerrigan*

Medical Officer of Health.

August 6th, 1946.



BOROUGH OF LOUTH.

ANNUAL REPORT ON THE HEALTH AND SANITARY CONDITIONS.  
FOR THE YEAR 1945.

PUBLIC HEALTH OFFICERS.

Medical Officer of Health - W.J.Kerrigan, M.B., B.Ch., B.A.O., L.M., D.P.H.  
Sanitary Inspector and Housing Manager - M.Dowson, A.R. San. I., M.R.I.P.H.H.  
Surveyor - J.C.Barber, A.M. Inst.M. & C.Y.E.  
Meat, Milk and Dairies Inspector (Part Time) - J.W.Beaumont, M.R.C.V.S.

SOCIAL CONDITIONS AND STATISTICS. SECTION A.

GENERAL STATISTICS.

Area of Borough in acres.....2812.  
Registrar General's estimate of Resident Population  
mid 1945.....9777.  
No. of Inhabited Houses.....4567.  
Rateable Value of Inhabited Houses.....£37,944.  
Sum represented by a Penny Rate.....£203.

VITAL STATISTICS.

BIRTHS.

Live Birth Rate per 1,000 of estimated population.....20.1 ( 16.1 )  
Still Birth Rate per 1,000 of all births.....20 ( 46 )

<u>Live Births</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>
Legitimate	176	104	72
Illegitimate	21	13	8
	<u>197</u>	<u>117</u>	<u>80</u>

Still Births

Legitimate	4	3	1
Illegitimate	-	-	-
	<u>4</u>	<u>3</u>	<u>1</u>

DEATHS.

<u>Total</u>	<u>Male</u>	<u>Female</u>
135	65	70

Death Rate per 1,000 of estimated resident population.....13.8 ( 11.4 )

Deaths from Puerperal Causes ( Headings 29 and 30 of the  
Registrar - General's Short List )

	<u>Deaths</u>	<u>Rate per 1000</u>	<u>Total Births</u>
No. 29 Puerperal Sepsis	1	5	
No. 30 Other Maternal Causes	Nil	Nil	

Death Rate of Infants under one year of age:-

All infants per 1,000 live births.....25 ( 46 )  
Legitimate infants per 1,000 legitimate  
live births.....28





Death Rate of Infants under one year of age ( Continued ).  
 Illegitimate infants per 1,000 illegitimate live births.

(Figures in brackets show the corresponding rates for England and Wales.)

Deaths from Cancer (all ages).....24  
 Deaths from Measles (all ages).....nil  
 Deaths from Whooping Cough(all ages).....nil  
 Deaths from Diarrhoea (under 2 years of age).....nil

#### Ages at Death.

Years	0/1	1/5	5/15	15/25	25/35	35/45	45/55	55/70	Over 70	Total
	5	2	1	1	3	5	7	40	71	135.

#### GENERAL PROVISION OF HEALTH SERVICES OF THE AREA.

#### SECTION B.

##### (a) Laboratory Facilities.

By special arrangement, all bacteriological examinations in connection with the work for which the Borough is responsible are done at the Emergency Public Health Laboratory, Lincoln. Such chemical analyses as are required are done by a public analyst on fee per sample basis. The County Council provide adequate laboratory facilities for the conduct of the services under its administration in the area.

##### (b) Ambulance Facilities.

The County Infirmary provides its own Ambulance Service as also do the Infectious Disease Hospitals. In addition an ambulance provided by the British Red Cross Society stationed locally is available as required.

##### (c) Nursing in the Home.

The lapsed District Nursing Service was revived during the year by the formation of a properly constituted District Nursing Association with a keen and capable Committee. The amount of the voluntary subscriptions resulted in the appointment of two Queen's Nurses for home nursing duties. The County Council supplies a nurse for the home in certain special cases of infectious disease.

#### Treatment Centres and Clinics.

The Lindsey County Council provides the following Consultant Services and Treatments at its Clinic Centre, 32, Queen Street.

Tuberculosis - Weekly Dispensary - Radiology weekly (at County Infirmary).  
 School Children - Weekly Clinic - Minor Ailments Daily - Ear, Nose & Throat.  
 Maternity & Child Welfare-Weekly Clinic-Ante-Natal-Toddlers.  
 Venereal Disease - Male and Female Weekly Clinic.  
 Orthopaedic - Monthly Clinic - Massage and Remedial Exercises twice weekly.  
 Dental - Weekly.  
 Eye - Fortnightly.  
 Rheumatic and Heart - By appointment.  
 Ultra Violet Therapy - twice weekly.

#### Hospitals.

The Borough is in the almost unique position for its size of having two large modern equipped general hospitals - the County Infirmary with 240 beds, and the Louth and District Hospital with accommodation for 57 patients.





The County Infirmary - an E.M.S. Hospital under County Council administration, has a Medical Superintendent, Resident Medical Officers, and Consulting Visiting Staff. It is a recognised Training School for Nurses and is an approved institution under the Lines. Joint Scheme for the treatment of Cancer.

Louth and District Hospital, supported by voluntary contributions, is served by an Honorary Medical and Surgical Staff consisting of the Local Practitioners with a Consulting Visiting Staff.

Both Hospitals provide Casualty Departments and Out-Patient facilities for patients referred for Specialist advice.

#### Isolation Hospitals.

Cases of Infectious Diseases requiring hospitalisation are sent to either Grimsby Corporation or Osgodby Hospitals under the Council's agreement with the North East Lindsey Joint Hospital Board.

The facilities have been adequate and satisfactory.

### SANITARY CIRCUMSTANCES IN THE AREA. SECTION C.

#### Water Supply.

All the houses, with the exception of about 35 houses on the Borough boundary and representing about 99% of the total, are supplied from the Public Water Mains. Of these, 60% have a direct supply, and the remainder are supplied by means of stand pipes. The latter figures are approximations as no accurate information is yet available regarding this. The supply is satisfactory in quantity and quality. The water, which is lightly chlorinated, is controlled by monthly bacteriological examination and twice yearly chemical analysis, and none of the analyses showed any suspicion of contamination. In the Appendix is shown results of a Chemical Analysis.

#### Drainage and Sewerage.

No new completed lengths of sewer were laid. Routine inspection and attention to Drains carried out.

The Sewage Disposal Works were in good condition, producing by analysis, a satisfactorily treated effluent. Result of one such examination is given in Appendix 2.

Closets. There are still 38 houses with privy vaults and some 44 with pail closets in the area. Only two conversions were done during the year.

House Refuse. Weekly collections and Disposal of refuse by incineration.

Nuisances. (1). Abated as a result of informal action by Sanitary Inspector. 158.  
(2). Statutory notice issued by Sanitary Inspector. 13.

### HOUSING. SECTION D.

Total number of Houses erected during the year.....Nil.

1. Inspection of Dwelling Houses during the Year-
  - (1) (a) Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts).....205.
    - (b) Number of inspections made for the purpose....342.
  - (2) (a) Number of dwelling houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925.....106.
    - (b) Number of inspections made for the purpose....121.



1. Inspection of Dwelling Houses during the year - Continued.
  - (3) Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation 72.
  - (4) Number of dwelling houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation.....42.
2. Remedy of Defects during the year without serving of formal notices.....30.
3. Action under Statutory Powers during the year-
  - (a) Proceedings under Sections 9,10, and 36 of the Housing Act,1936.
    - (1) Number of dwelling houses in respect of which notices were served requiring repairs.....4.
    - (2) Number of dwelling houses which were rendered fit after service of formal notices -
      - (a) By owners.....4.
  - (b) Proceedings under the Public Health Acts.
    - (1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied.....nil.
  - (c) Proceedings under Sections 11,12, and 13 of the Housing Act,1936.....nil.
4. Housing Act,1936 - Part IV. Overcrowding.
  - (a) (1) Number of dwellings overcrowded at end of year.....21.
  - (2) Number of families dwelling therein.....37.
  - (3) Number of persons dwelling therein.....150.
  - (b) Number of new cases of overcrowding reported during the year.....13.
  - (c) Number of cases of overcrowding relieved during the year.....1.
  - Number of persons concerned in such cases.....9.
  - (d) Number of houses again overcrowded after being previously relieved.....nil.

INSPECTION AND SUPERVISION OF FOOD.      SECTION E.

(a) Milk Supply.

There are five producers with Accredited herds and 10 producers of Ungraded milk in the Borough.

Additional requirements are met by supplies of-

- (a) Pasteurised milk from Mr Blades' Depot in the Borough and the Co-operative Society's Works in Grimsby.
- (b) Heat Treated (Sterilised) from the Clover Dairies, Grimsby.

The raw milk for (a) and (b) above is produced outside the Borough and represents an approximate gallonage of 2,000 per week.





SECTION E Continued.

(a) Milk Supply continued.

Below is shown the results of Bacteriological and other examinations carried out during the year.

Type of Milk.	Satisfactory Examinations	Unsatisfactory Examinations.	Sampling Authority.
Accredited.	16	2	Lindsey C.C.
Ungraded.	5	9	Louth M.B.
Pasteurised.	+15	+4	Louth M.B.

+ Relate to standard of heat treatment.

The Milk and Dairies Inspector reports having carried out quarterly inspections of all the milk premises in the Borough during the year.

Ice Cream.

Checks on cleanliness of production were started by having bacteriological analysis of samples exposed for sale.

Five out of the eight samples taken were unsatisfactory, but four of these came from the same manufacturer.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS AND OTHER DISEASES. SECTION F.

Infectious Diseases other than Tuberculosis notified during 1945.

Disease.	Total Cases Notified.	Cases admitted to Hospital.	Total Deaths.
Smallpox.....	-	-	-
Scarlet Fever.....	4	3	-
Diphtheria.....	-	-	-
Enteric Fever (including para-typhoid).....	1	1	-
Puerperal Pyrexia.....	12	12+	1
Pneumonia.....	4	-	3
Erysipelas.....	1	1	-
Chicken Pox.....	2	1	-
Dysentery Sonnei.....	3	3+	-
Measles.....	99	-	-
Whooping Cough.....	4	-	-

+ Cases arose in General Hospitals and nursed there.

Diphtheria Immunisation.

Immunised during 1945.

- (1) 0 - 4 years.  
    (a) Under public scheme.....125  
    (b) By Private Practitioners..... 30      Total 155.
- (2) 5 - 14 years.....      Total 20.

Estimated % of Immunised Children in the Borough.

- A. 1 - 4 Group.....93%.
- B. 5 - 14 Group.....96.5%.





Diphtheria Immunisation (continued).

These figures were checked - Group A by cross section survey and Group B by surveys of the individual Schools at the end of year. Below is shown result of this school survey.

Name of School.	No. on Roll.	% Immunised.
Kidgate (Junr).	400	100%
Open Air School	30	100%
Monks Dyke (Senr).	317	99%
Boys' Grammar School.+	123	98.4%
Eastfield Rd. (Jnr).	308	96.7%
Girls' Grammar School.+	151	94%
St. Michael's (Jnr).	123	83.7%
Private School (Jnr).	47	80%
+ Only scholars under 15 years included.		

It is pleasing to record that the objector to Immunisation is becoming increasingly rare in the pre-school age group, which accounts for the small numbers now requiring treatment on attaining school age.

Tuberculosis - New Cases and Mortality during 1945.

Age Periods.	New Cases.				Deaths.			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	M.	F.	M.	F.	M.	F.	M.	F.
0.....								
1.....								
5.....				1				
15.....	2	2	1	1			1	
25.....	2	1		1				
35.....		1			1			
45.....								
55.....					2			
65 & Upwards..								
Totals	4	4	1	3	3		1	

During the year 521 cases were seen at the Louth T.B. Dispensary and 112 new Cases referred were investigated. In connection with Tuberculosis work for this and other Dispensaries 460 X-Ray and 80 Screen examinations were done.



# APPENDIX I.

## Causes of Death in the Borough of Louth.

Causes of Death.	1945.	
	Males.	Females.
1. Typhoid and Paratyphoid Fever.....	-	-
2. Cerebro Spinal Fever.....	-	-
3. Scarlet Fever.....	-	-
4. Whooping Cough.....	-	-
5. Diphtheria.....	-	-
6. Tuberculosis of Respiratory System....	3	-
7. Other forms of Tuberculosis.....	1	-
8. Syphilitic diseases.....	1	-
9. Influenza.....	-	-
10. Measles.....	-	-
11. Acute Poliomyelitis and Polioencephalitis	-	-
12. Acute Infectious Encephalitis.....	-	-
13. Cancer of buccal cavity and oesophagus (male) and uterus (female).....	-	1
14. Cancer of stomach and duodenum.....	3	3
15. Cancer of breast.....	-	3
16. Cancer of all other sites.....	8	6
17. Diabetes.....	-	-
18. Intra cranial vascular lesions.....	2	15
19. Heart disease.....	26	18
20. Other diseases of circulatory system...	-	1
21. Bronchitis.....	3	5
22. Pneumonia.....	3	-
23. Other respiratory diseases.....	-	2
24. Ulcer of stomach or duodenum.....	1	-
25. Diarrhoea under two years.....	-	-
26. Appendicitis.....	1	-
27. Other digestive diseases.....	-	1
28. Nephritis.....	1	2
29. Puerperal and post-abortion sepsis....	-	1
30. Other maternal causes.....	-	-
31. Premature birth.....	-	-
32. Congenital malformation, birth injury, infantile diseases.....	1	2
33. Suicide.....	1	-
34. Road traffic accidents.....	-	-
35. Other violent causes.....	2	-
36. All other causes.....	8	10
Totals.	65	70

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APPENDIX 2.

16th July, 1945.

Certificate of Analysis.

The Sample of WATER.  
Received from the Borough of Louth on the 29th day of June, 1945.  
Sample taken 28th June.  
Has been examined with the following results:-

	<u>Parts per million.</u>
Free Ammonia.....	0.006
Albuminoid Ammonia.....	0.010
Chlorides as Chlorine.....	17.000
Nitrogen as Nitrates.....	1.500
Total Solids.....	172.000
Free Chlorine.....	0.1

Bacteriological Exam.

Colonies per 1 m.1 on Nutrient Gelatine after 72 hours.....nil.  
B.Coli. in 100 m.1. ....Negative.

From the above data I conclude that this Water is satisfactory in all respects for Public Supply.

Certificate of Analysis.

The Sample of SEWAGE EFFLUENT.  
Received from the Borough of Louth on the 29th day of June, 1945, from Louth Disposal Works.  
Has been examined and found to contain the supernatant liquor:-  
pH Value 8.0.

Total Solids dried @ 100°C.	<u>Parts per 100,000.</u>
Organic Matter -	24.0 67.00
Mineral Matter -	43.0
Free Ammonia.....	0.11
Albuminoid Ammonia.....	0.08
Chlorides as Cl.....	5.20
Nitrates.....	0.30
Nitrites.....	nil.
Sulphuretted Hydrogen(H <sub>2</sub> S).....	nil.
Free Sulphur Compounds.....	nil.
Sulphur Compounds as Sulphates (SO <sub>3</sub> )...	2.19
Total Sulphur Compounds.....	2.19
Oxygen consumed at 80°F. in 15 mts -	0.320
do. do. do. in 4 hrs -	0.574
Dissolved Oxygen.....	0.165
Sediment.....	0.72

Bacteriological Exam.

B.Coli. (25 c.c.).....Positive.  
The Sample is clear with faint yellow colour and odourless.  
The small amount of sediment is of a grey brown colour.

From the above data I conclude that this Effluent satisfies the requirements of the Sewage Commissioners and is satisfactory to flow into a river or fresh water streams.

(Sgd) J.A.FOSTER, F.I.C., F.C.S.etc.

Public Analyst.

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